

**Anti-Catenin delta 1 Antibody**  
Mouse monoclonal antibody to Catenin delta 1  
Catalog # AP61622

### Specification

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#### Anti-Catenin delta 1 Antibody - Product Information

Application	IF
Primary Accession	<a href="#">O60716</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	108170

#### Anti-Catenin delta 1 Antibody - Additional Information

**Gene ID** 1500

#### Other Names

KIAA0384; Catenin delta-1; Cadherin-associated Src substrate; CAS; p120 catenin; p120(ctn); p120(cas)

#### Target/Specificity

Recognizes endogenous levels of Catenin delta 1 protein.

#### Dilution

IF~~WB (1/500 - 1/1000), IH (1/100 - 1/300)

#### Format

Mouse IgG. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.09% (W/V) sodium azide.

#### Storage

Store at -20 °C. Stable for 12 months from date of receipt

#### Anti-Catenin delta 1 Antibody - Protein Information

**Name** CTNND1

**Synonyms** KIAA0384

#### Function

Key regulator of cell-cell adhesion that associates with and regulates the cell adhesion properties of both C-, E- and N-cadherins, being critical for their surface stability (PubMed:<a href="http://www.uniprot.org/citations/14610055" target="\_blank">14610055</a>, PubMed:<a href="http://www.uniprot.org/citations/20371349" target="\_blank">20371349</a>). Promotes localization and retention of DSG3 at cell- cell junctions, via its interaction with DSG3 (PubMed:<a href="http://www.uniprot.org/citations/18343367" target="\_blank">18343367</a>). Beside cell-cell adhesion, regulates gene transcription through several transcription factors including ZBTB33/Kaiso2 and GLIS2, and the activity of Rho family GTPases and downstream cytoskeletal

dynamics (PubMed:<a href="http://www.uniprot.org/citations/10207085" target="\_blank">10207085</a>, PubMed:<a href="http://www.uniprot.org/citations/20371349" target="\_blank">20371349</a>). Implicated both in cell transformation by SRC and in ligand-induced receptor signaling through the EGF, PDGF, CSF-1 and ERBB2 receptors (PubMed:<a href="http://www.uniprot.org/citations/17344476" target="\_blank">17344476</a>).

#### Cellular Location

Cell junction, adherens junction. Cytoplasm. Nucleus. Cell membrane. Cell junction.  
Note=Interaction with GLIS2 promotes nuclear translocation (By similarity). Detected at cell-cell contacts (PubMed:15240885, PubMed:17047063). NANOS1 induces its translocation from sites of cell-cell contact to the cytoplasm (PubMed:17047063). CDH1 enhances cell membrane localization (PubMed:15240885). Localizes to cell-cell contacts as keratinocyte differentiation progresses (By similarity) {ECO:0000250|UniProtKB:P30999, ECO:0000269|PubMed:11896187, ECO:0000269|PubMed:15240885, ECO:0000269|PubMed:17047063} [Isoform 2A]: Nucleus [Isoform 4A]: Cytoplasm

#### Tissue Location

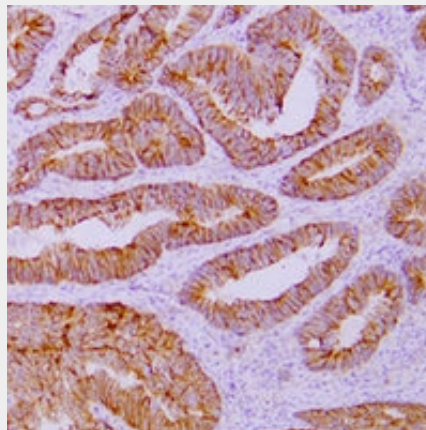
Expressed in vascular endothelium. Melanocytes and melanoma cells primarily express the long isoform 1A, whereas keratinocytes express shorter isoforms, especially 3A. The shortest isoform 4A, is detected in normal keratinocytes and melanocytes, and generally lost from cells derived from squamous cell carcinomas or melanomas. The C-terminal alternatively spliced exon B is present in the p120ctn transcripts in the colon, intestine and prostate, but lost in several tumor tissues derived from these organs

#### Anti-Catenin delta 1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

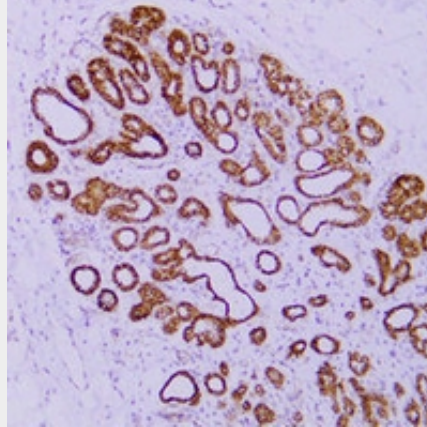
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-Catenin delta 1 Antibody - Images



Immunohistochemical analysis of Catenin delta 1 staining in human colon carcinoma formalin

fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunohistochemical analysis of Catenin delta 1 staining in human invasive ductal breast carcinoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

#### **Anti-Catenin delta 1 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within human Catenin delta 1. The exact sequence is proprietary.